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Amdt. dated March 2, 2006
Reply to Office action of January 31, 2006

In the specification:

Page 6, line 4-13, amend the paragraph as follows:

FIG. 4 is the diagram to show the dividing method of grid boundary faces. FIG. 4(a) is the diagram to show the dividing method of a triangular face. FIG. 4(b) is the diagram to show the dividing method of a tetrahedral face. FIG. 4(c) is the diagram to show the dividing method of the cell whose level difference is zero and the deleting method of the cell whose level difference is one in the two-dimensional space. FIG. 4(d) is the diagram to show the dividing method of the cell whose level difference is one and the deleting method of the cell whose level difference is zero in the two-dimensional space. FIG. 4(e) is the diagram to show the hanging node and the temporary grid. FIG. 4(f) shows the family relation.

Page 6, line 22 – page 7, line 3, amend the paragraphs as follows:

FIG. 7 is the diagram to show the analysis result of the traveling state of shock wave in the shock tube. FIG. 7(a) shows the result of the analysis of the traveling state of the shock wave. FIGS. 7(b) and (c) show the grid conditions at the state. FIG. 7(d) shows the analysis grid.

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FIG. 8 is the diagram to show the analysis result of the traveling state of shock wave in the shock tube that is constructed of the grid of tetrahedra, prisms, pyramids and hexahedra. FIG. 8(a) shows the result of the analysis of the traveling state of the shock wave. FIGS. 8(b) and (c) show the grid conditions at the state. FIG. 8(d) shows the analysis grid.

Page 7, line 13-15, amend the paragraph as follows:

FIG. 12(a) shows the traveling state of the shock wave toward the sphere of one eighth. FIG. 12(b) shows the initial grid to analyze the unsteady shock wave around the sphere of one eighth. FIG. 12(c) shows density contours.